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Sweet 16 Chemistry Ion Tournament

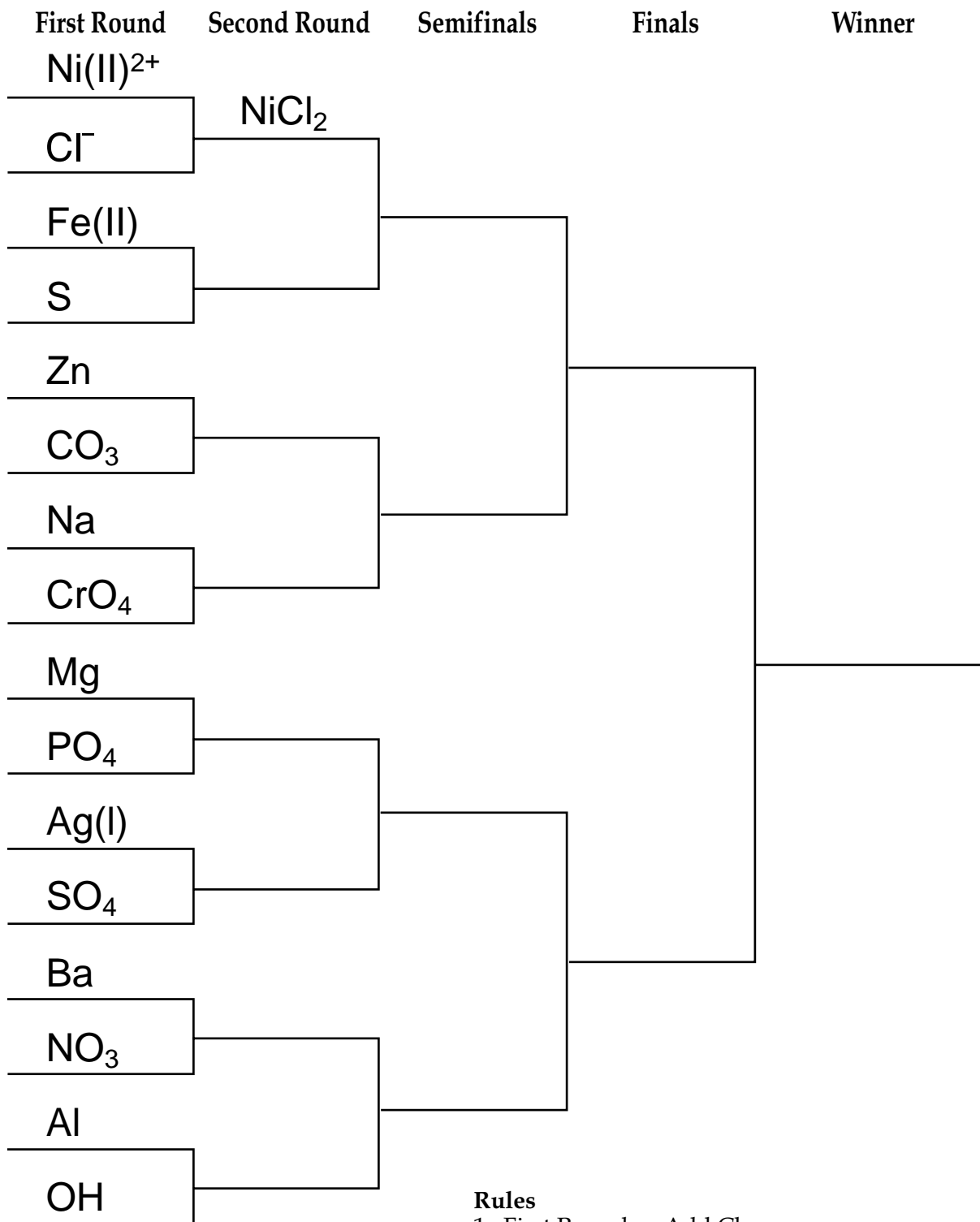
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With spring just around the corner, your students' thoughts will soon be turning to sunshine, prom, and the NCAA basketball tournament. This clever activity combines the ever-popular basketball office pool with a review of the formulas of ionic compounds and their solubility. The result is the Sweet 16 Chemistry Ion Tournament. This activity will spark interest in your chemistry class because students will have fun playing the "Tournament."

The rules for filling out the Tournament brackets are simple: For the first round, just add the charge for each ion. The second round is also easy, combine the two ions to form a neutral compound and write out the formula. Once the compounds are formed, they must now compete with one another to move on. Only one of the two compounds in each bracket from the second round will dissolve in water—move this compound on to the semifinals. When the two semifinal compounds in each bracket are both dissolved in water, two new compounds are possible; one is soluble and one will precipitate. The compound that is soluble moves on to the finals. The winner of the Chemistry Ion Tournament is the insoluble product obtained when the two finalists are dissolved in water. To save you time, the answer sheet is also attached.

Since the presentation of solubility rules varies slightly, we strongly recommend using the solubility rules found on page 951 of the *2003 Flinn Scientific Catalog/Reference Manual*. If you have not received your *2003 Flinn Scientific Catalog/Reference Manual* yet, please give us a call (800-452-1261) or e-mail to request one. Special thanks to Stephan Graham from Cristo Rey Jesuit High School in Chicago, IL for providing us with the idea for this clever activity.

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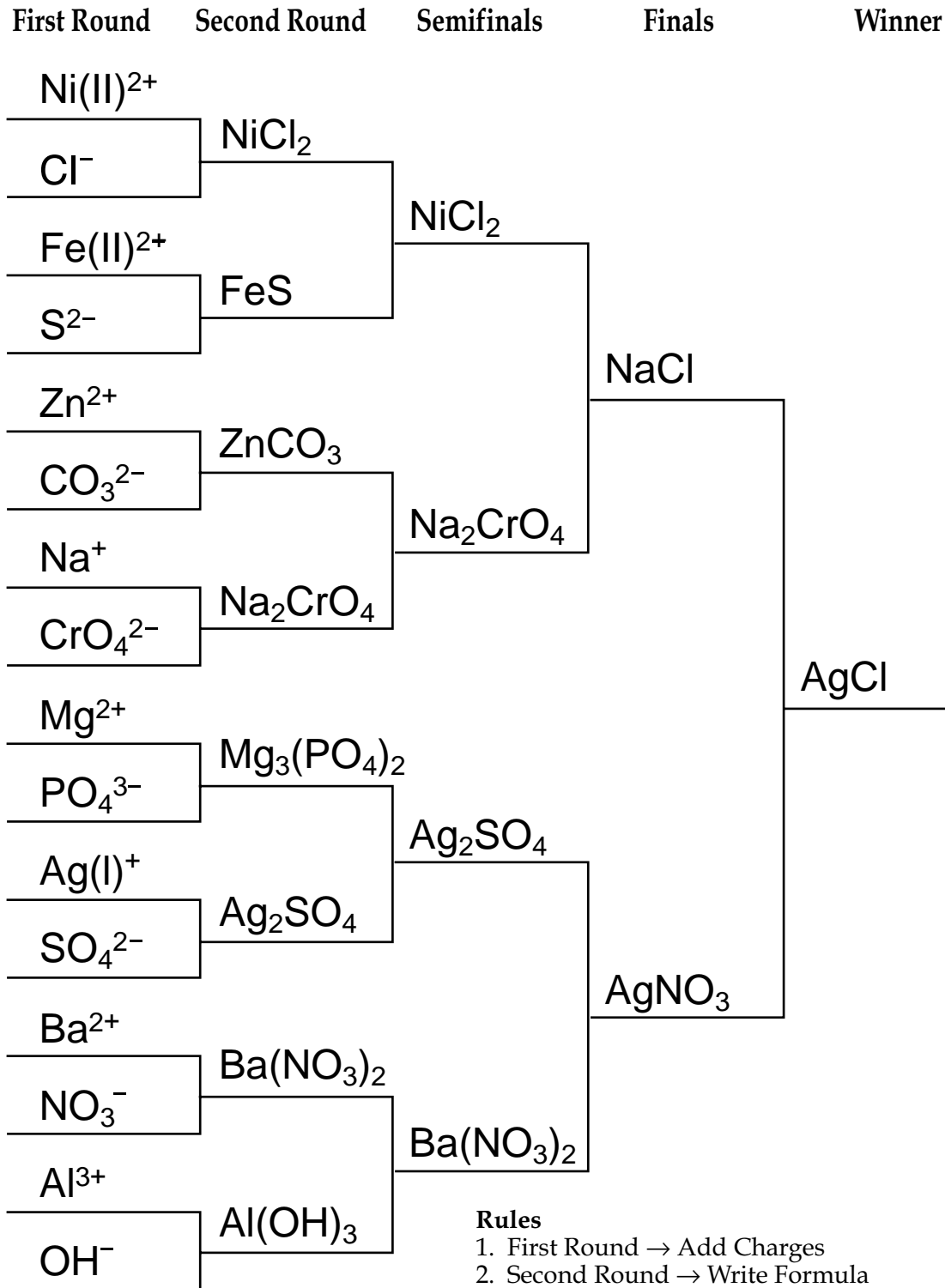


Rules

1. First Round → Add Charges
2. Second Round → Write Formula
3. Semis → Soluble Compound (compound that will dissolve in water)
4. Finals → Soluble Product of Chemical Reaction
5. Winner → Insoluble Product of Chemical Reaction

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Answer Key



Rules

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